

Lighting Element Comprising An Inserted Light-Guiding Body

Abstract:

5 Method for the production of a lighting element comprising
at least one luminescent diode and an inserted light-
guiding body, which is arranged in front of said
luminescent diode in the direction of the exit of the main
light, wherein the respective luminescent diodes are
10 connected to the inserted light-guiding body by an
injection molding process with transparent plastic. For
this purpose, at least 50 % of the surface of the light-
emitting diodes is covered by the injected material during
injection molding. At the same time, the maximum wall
15 thickness of the injected layer does not exceed three-times
the minimum wall thickness of said layer.

Using the present invention, a method for the production of
light-guiding lighting elements is developed by using at
20 least one inserted light-guiding body, wherein the
transparent partial illuminating bodies are connected to
one another in a safe, rapid and precise manner with
respect to the form thereof.